



SEQUENCE LISTING

RECEIVED

JUL 18 2001

TECH CENTER 1600/2900

<110> NOTI, John

<120> MYELOID CELL PROMOTER AND CONSTRUCTS CONTAINING SAME

<130> 052544/0108

<140> US 09/476,202

<141> 2000-01-03

<160> 11

<170> PatentIn version 3.0

<210> 1

<211> 3297

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1641)..(1645)

<223> n can be a, c, g, or t

<220>

<221> CDS

<222> (1245)..(1275)

<220>

<221> CDS

<222> (2123)..(2228)

<220>

<221> CDS

<222> (2308)..(2411)

<220>

<221> CDS

<222> (2545)..(2615)

<220>

<221> CDS

<222> (2744)..(2858)

<220>

<221> CDS

<222> (2936)..(3066)

<220>

<221> CDS

<222> (3132)..(3275)

<400> 1

tttaatcatg gaatatttca aacatacaga aaaatcacag aaaataaata acaaccactc	60
atztatcttc tcccccaacc catgtaataa atattaaaaat attgtgttaa atgctaaatt	120
taacacatgc taaaggttcc tggctggatg tgggtggctca cgcttgaat ccagctactt	180
tgggaggagg aggtgggagg attgcttgag tccaggagct cgagaccagc atgggcaaca	240
tagtgcgatc tcgtctctac aaaaaacaaa aaaattagct gggcatggtg gtgtgcatca	300
gtaatcccag tgactgggag gctgagggtg gagaattgct tgagtctggg aatttgaggc	360
tgcagtgagc cctgatcatg ccaactgcatt ccagcatggg cgacatagca aaacttgta	420
aaaaaaaaaa aagtttctc tctgccccac catagacaac cactcttctg atttctatct	480
tcgtagatga attttgccca ttctcttgta tatgaaagga accagacatt aggcattctg	540
gtgtctgggt tctttcactt aagataaaat tgagttaacc tgtattgttg tacagaactg	600
cagtttggtc tttgttattt attgtaaaga cagggctctg ctatgttgcc taggctggtc	660
tcgaactgtt ggctcaagc aatccacctg ccaagctctg ggaccacagg catgagccat	720
ggcatctgat ckgtagtttg atcttatttc ttgctgagta gtagcccatg gcatgacttt	780
attattttgg gtgtccattc tcctctggag gggctctgct ttttgaaacc acaccctggc	840
ctagctcccc ttctccctgc ctctctgcag gctcacatcc acatgccaag acctctgcag	900
ccattctgct tcctgtcctt ccaactcctg gggacctcag agagctacgg ggctccctgg	960
gtaccaactg gctcctgagg cctgggggag ggtggtcttc tgggagaagg aagccaggtc	1020
cctgcagggt gtggaggggg acagaatgag ggtttttccc caggatgttg ttggccctg	1080
ccccacttc tgttcataa ttaaccacgc cctcctacc cactgtgccc ctcttctgc	1140
tgtgtggagg cctgaatca ttattttaac taccctctgg gaggtgagc accttctgtg	1200
ctctgtcccc aaccttcac ttccctcaa cgcgtgctc aggg atg acc ttc ggc	1256
	Met Thr Phe Gly
	1
act gtg ctt ctt ctg agt g gtaagtggg ccagggtgct ggggagaagc	1305
Thr Val Leu Leu Leu Ser	
5	10
ttggaggagt tctgagggga ctccatctgg gagggcaggc tgggggctgg tggctggctc	1365
caaccactct tatgaggagc tgaggcaggg gagtgcttca tgtgcgagtg gcccgagtc	1425
agtagagtgt gacctgaatg aagaggggct caggggctgt gctcaggtgg cgactaagct	1485

acctctccag ctggctatgt tgtcccaggc ttccctgctc ccactcatgg agtcacctggt	1545
gtgggtgaca gaggtctccc cagcctcccc cgggagtgga aggccacaga agccaccagg	1605
gagggggaaa ggttggacat cacctccctg ggccctnnnnn ttcccccaag tcctgactgc	1665
acgtagggaa gagggccccct gctgaaaact gcatcagagt cacattcacg tgccatcaaa	1725
aatcaggctt ggctgggtgc ggtgggtcat gcttataatc ccagcacttt gggaggccga	1785
gatgggcgta tcccctgagg tcaggagttt gtgaccagcc tggccaacat ggtgaaaccc	1845
catctttacc aaaaatataa aaattagccg ggcatgggtg cgtgcacttg taatcccagc	1905
tacttgggaa gctgaggcaa gagaatcgct tgaaccagg agacggaagt tgcagtgagc	1965
tgagatcgtg ccgttgcaact ccagcctcag caacagagcg agactccatc tcaaaaaaaaa	2025
aaaaaaaaaa aagaaaaaaaa agaaaaagag gctgggaggt cctagggatt ggggcttctt	2085
taactcccag cctccccgcc caccaaatat tctcag tc ctg gct tct tat cat	2139
Val Leu Ala Ser Tyr His	15
gga ttc aac ctg gat gtg gag gag cct acg atc ttc cag gag gat gca	2187
Gly Phe Asn Leu Asp Val Glu Glu Pro Thr Ile Phe Gln Glu Asp Ala	20 25 30
ggc ggc ttt ggg cag agc gtg gtg cag ttc ggt gga tct cg	2228
Gly Gly Phe Gly Gln Ser Val Val Gln Phe Gly Gly Ser Arg	35 40 45
gtaggcccca ctcccccaag tgcccgctgc tcccaccct cctgtggctg cagtgcacatg	2288
gccatgggtt tgtctccag a ctc gtg gtg gga gca ccc ctg gag gtg gtg	2338
Leu Val Val Gly Ala Pro Leu Glu Val Val	50 55
gcg gcc aac cag acg gga cgg ctg tat gac tgc gca gct gcc acc ggc	2386
Ala Ala Asn Gln Thr Gly Arg Leu Tyr Asp Cys Ala Ala Ala Thr Gly	60 65 70
atg tgc cag ccc atc ccg ctg cac a gtgagtgacc acctgggaat	2431
Met Cys Gln Pro Ile Pro Leu His	75 80
tgggccccctc aaccctcctg gacccaactg tgcccccgct tagcttccag tccagacctt	2491
ccccgcaaat gagtgtgtgc tgtgagtgag accccgcgtg tctgcccttg cag tc	2546
Ile	
cgc cct gag gcc gtg aac atg tcc ttg ggc ctg acc ctg gca gcc tcc	2594
Arg Pro Glu Ala Val Asn Met Ser Leu Gly Leu Thr Leu Ala Ala Ser	85 90 95

acc aac ggc tcc cgg ctc ctg gtgagtgagt gtcttgggcc acgggggggt 2645
 Thr Asn Gly Ser Arg Leu Leu
 100

gggggtggggc ggggggtgtt gttggggagg aggctggggc tgggagtga gaggaggagg 2705

ctgctaggga ctcttggtc acaggcttct gcctccag gcc tgt ggc ccg acc ctg 2761
 Ala Cys Gly Pro Thr Leu
 105 110

cac aga gtc tgt ggg gag aac tca tac tca aag ggt tcc tgc ctc ctg 2809
 His Arg Val Cys Gly Glu Asn Ser Tyr Ser Lys Gly Ser Cys Leu Leu
 115 120 125

ctg ggc tcg cgc tgg gag atc atc cag aca gtc ccc gac gcc acg cca g 2858
 Leu Gly Ser Arg Trp Glu Ile Ile Gln Thr Val Pro Asp Ala Thr Pro
 130 135 140

gtaggtccct ggcaggagct gcaggagggg gttggggccc cgcagtgcac ctccgattcc 2918

tccccattcc cccacag ag tgt cca cat caa gag atg gac atc gtc ttc 2967
 Glu Cys Pro His Gln Glu Met Asp Ile Val Phe
 145 150

ctg att gac ggc tct gga agc att gac caa aat gac ttt aac cag atg 3015
 Leu Ile Asp Gly Ser Gly Ser Ile Asp Gln Asn Asp Phe Asn Gln Met
 155 160 165

aag ggc ttt gtc caa gct gtc atg ggc cag ttt gag ggc act gac acc 3063
 Lys Gly Phe Val Gln Ala Val Met Gly Gln Phe Glu Gly Thr Asp Thr
 170 175 180 185

ctg gtgaagactg ggcaaacaat agtaacaggc actgagccct gggccctccc 3116
 Leu

cactggcctt tgcag ttt gca ctg atg cag tac tca aac ctc ctg aag atc 3167
 Phe Ala Leu Met Gln Tyr Ser Asn Leu Leu Lys Ile
 190 195

cac ttc acc ttc acc caa ttc cgg acc agc ccg agc cag cag agc ctg 3215
 His Phe Thr Phe Thr Gln Phe Arg Thr Ser Pro Ser Gln Gln Ser Leu
 200 205 210

gtg gat ccc atc gtc caa ctg aaa ggc ctg acg ttc acg gcc acg ggc 3263
 Val Asp Pro Ile Val Gln Leu Lys Gly Leu Thr Phe Thr Ala Thr Gly
 215 220 225 230

atc ctg aca gtg gtgtaaagca accccgaccc ca 3297
 Ile Leu Thr Val

<210> 2
 <211> 234
 <212> PRT
 <213> Homo sapiens

<400> 2

Met Thr Phe Gly Thr Val Leu Leu Leu Ser Val Leu Ala Ser Tyr His
1 5 10 15

Gly Phe Asn Leu Asp Val Glu Glu Pro Thr Ile Phe Gln Glu Asp Ala
20 25 30

Gly Gly Phe Gly Gln Ser Val Val Gln Phe Gly Gly Ser Arg Leu Val
35 40 45

Val Gly Ala Pro Leu Glu Val Val Ala Ala Asn Gln Thr Gly Arg Leu
50 55 60

Tyr Asp Cys Ala Ala Ala Thr Gly Met Cys Gln Pro Ile Pro Leu His
65 70 75 80

Ile Arg Pro Glu Ala Val Asn Met Ser Leu Gly Leu Thr Leu Ala Ala
85 90 95

Ser Thr Asn Gly Ser Arg Leu Leu Ala Cys Gly Pro Thr Leu His Arg
100 105 110

Val Cys Gly Glu Asn Ser Tyr Ser Lys Gly Ser Cys Leu Leu Leu Gly
115 120 125

Ser Arg Trp Glu Ile Ile Gln Thr Val Pro Asp Ala Thr Pro Glu Cys
130 135 140

Pro His Gln Glu Met Asp Ile Val Phe Leu Ile Asp Gly Ser Gly Ser
145 150 155 160

Ile Asp Gln Asn Asp Phe Asn Gln Met Lys Gly Phe Val Gln Ala Val
165 170 175

Met Gly Gln Phe Glu Gly Thr Asp Thr Leu Phe Ala Leu Met Gln Tyr
180 185 190

Ser Asn Leu Leu Lys Ile His Phe Thr Phe Thr Gln Phe Arg Thr Ser
195 200 205

38
5

Pro Ser Gln Gln Ser Leu Val Asp Pro Ile Val Gln Leu Lys Gly Leu
 210 215 220

Thr Phe Thr Ala Thr Gly Ile Leu Thr Val
 225 230

<210> 3
 <211> 21777
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1641)..(1645)
 <223> n can be a, c, g, or t

<220>
 <221> misc_feature
 <222> (11131)..()
 <223> n can be a, c, g, or t

<400> 3
 tgatccctct ttgccttgga cttcttctcc cgcgattttc cccacttact taccctcacc 60
 tgtcaggctg acggggagga accactgcac caccgagaga ggctgggatg ggcttgcctc 120
 ctgtcttttg gagaaaacgt cttgcttggg aaggggcctt tgtcttgtca aggttccaac 180
 tggaaaccct taggacaggg tccctgctgt gttccccaaa aggacttgac ttcgaatttc 240
 tacctagaaa tacatggaca atacccccag gcctcagtct cctttctccc atgaggcacg 300
 aatgatcttt ctttcctttc cttttttttt tttttctttt cttttttttt ttttttgaga 360
 cggagtctcg ctctgtcacc caggctggag tgcaatggcg tgatctcggc tcgctgcaac 420
 ctccgcctcc egggttcaag taattctgct gtctcagcct cctgcgtagc tgggactaca 480
 ggcacacgcc acctcgcccg gcccgatctt tctaaaatac agttctgaat atgctgctca 540
 tccccacctg tcttcaacag ctccccatta cctcaggac aatgtctgaa ctctccagct 600
 tcgctgaga agtccccctc catcccagag ggtgggcttc agggcgacaca gcatgagagc 660
 ctctgtgccc ccatcaccct cgtttccagt gaattagtgt catgtcagca tcagctcagg 720
 gcttcacgt ggggctctca gttccgattc cccaggctga attgggagtg agatgcctgc 780
 atgctgggtt ctgcacagct ggcctcccgc ggttgggtca acattgctgg cctggaaggg 840
 aggagcgcct tctagggagg gacatggccc cgggtcggtt gcagctcacc agccccaggg 900
 gcagaagaga cccaaccact tctattttt tgaggctatg aatatagtac ctgaaaaaat 960

gccaagcact agattat ttttaaaagc gtacttttaa tgtttgtgtt aatacacatt	1020
aaaacatgca caaaaagatg catctaccgc tcttgggaaa tatgtcaaag ggtctaaaaa	1080
taaaaaagcc ttctgtggat atgagtcctg aaggatgaca cccatgggggt ccctttacca	1140
cgggtggaccc tggccagcac tgaggcctgg ggccaggaca agaagttaac cagagtaggg	1200
ttgtgaatat ccctctcttg gaagtaacct gacctcttaa tctgctcact ccactctcag	1260
ggctggtgcc gatggtaagc tgggtggagct gtcgggtgga gggggcatag aatagagaag	1320
ggacaacctc cagtggctac tttccacct ggaaaggtct ctggagtgac caatactcac	1380
aagcgtttcc tacaagtcct aggatgtgtt gaagggcaca ctgtctgcat atagtgagt	1440
attgaagaac atgttgggggt cccacattga gagctgctgc ccacaataag gtcattcttg	1500
ctattatgcc accatcctgg cataaagttc atcatggtgc ttggcactga gctggggggcc	1560
tcacaggaca agccattcct gacctcggag tgacgccact gcagctatca ccagcaaggg	1620
acccggggccg tgtggatgtt tcaattagaa aacagaagg gaggcagttg agtgatttga	1680
aggaagatg gaaagtggcc ctttacctcc agccaaaaat gtctgtccta tacatcagca	1740
gaggtccaa aatccctgtg gat ttttgaag cttttgagtc cccaggatga ctaattatta	1800
tgcagtttcc tcagaaagg aatcagaaga taaggctttg taagaattca gccctaattg	1860
ctgggcacag tggctcatgc ctgtaatccc agcactttgg gagggcagg caggaggatt	1920
gtttgtgctc agaaatttga gaccaccctg ggtaatatat tgaaapcttg tgtctacaaa	1980
aaaattttaa aattaccag gcatggtggc atgtgcttgt agtcccagct acttggtagg	2040
ctgaagcagg aggatcactt gagcctggga ggttgaggat acagtgagct gtgatttga	2100
ccaccacact ccagcctggg caacagagaa agatcatgtc tcagaaaaaa aaaaaaaat	2160
tgaccctaga gtggtgtttc tcaaaatgtg ttccacgaac cactggtggt caatgatggt	2220
cttctaagtg gaaggtttta gagaaaaaga gcaagaaacc catacatctc aaacatttga	2280
aactagtgat ttgcacagaa atagtgttgt ggccttaata attgtgtggc acacggactc	2340
cagggactac agtgggttct tgtctaaatt caggcaacaa gttgttattt totattttat	2400
tttattatta ttattttttg agatagtctc actttgtctc ccgggctgga gtgtagtggc	2460
acgatctcgg ctcaacgcaa cctctgtctc ctgggttcaa gtgatgcctc tgcctcagcc	2520
tccaagtag ctgggagtac aggggcgtac caccatgccc atttttattt atttattttt	2580
gagacagagt ctgctctgt caccaggt ggagtgcagt ggcattgatc ttggtcactg	2640

caacctccgc ctcccagggt caagttcaag cgattctcct gcctcagcct ctggagtagc	2700
tgggattaca ggcaggcacc accattttcca gctaattttt gtatttttag tatagatggg	2760
gtttcaccat gttgactagg ctggtctcga actcctgacc tcatgatccg cctcctcgg	2820
cctccgaaag tgctgggatt agaggtatga gccactgtac ttggccgaca aggtgttatt	2880
ttctgatatt cttcctttgt gtgttattgt gtacatttgt tacatttgca ttttcagggt	2940
tggctattgt gttgcattag atccccgaat cacaaaatgg atcaatggct caaaagcatg	3000
gaagttgtga ttaaaaaacta atctaattgc tacaatttac aataatgtca tcaaagtcaa	3060
tattgacttt taaatattga gcccagtgca cgtatagtat agacatgcat accggaataa	3120
gtgattgtga gccaaaaccc gaaaatatct agaagggtatt atactccctg acaggtaggt	3180
tgtattgggt ctgacatgta ttgtcccta gtgtgctgcc cattctgaaa ctttatcaaa	3240
cagtgcgatg aacctctgaa agcttttgtg ttattttctt atttatttat ttattgagat	3300
ggagtcttgc tctgtcgcgc aggctggagt gcagtggcat catcttggct cactgcaacc	3360
tttgccctct gggttcaagt gattctcctg cctcagcctc ttgagtagct gggattacag	3420
gcgcgcacca ccacgcccag ctaatttttg tatttttagt atagacgggg gtttcaccat	3480
gttggtcagg ctggtctcga acccctgacc tcatgatctg cctgcctcag gtaaagcaat	3540
agagattctt agaacaactg ctacatgtag ctttcttatt caaaagtgat tagtgttgtc	3600
accgaatata gaggagacag caaaaccaca gtgacataaa tcaaagggtgc tttttaaggt	3660
agcaaaagta ggtacaagtc acataatttc caagaagctt gtagaaatgg cagtagagtt	3720
catacctgct attgaaaggt tgcttttggc tgcaataaat agaaaaaac aaaagcatgt	3780
aagagcagac agaagacctt tactctgcaa gaggttcagg tgcaggttag tgtttaatgc	3840
agagtctcag cattgacaga ttctttctga tcttccaatt gatcgctcct gcgggggcgg	3900
tttagttctt tcccactgac taggattggg tcaaattcca tccccttggg tgcattgagt	3960
gctgagaagg tgagcatgtg cttttcacag gcttaataaa aagaggtagc tccagccagg	4020
tgcagtgact catgcctata atctcagcac tttgggaggc agagggtggg aggtcacctg	4080
aggtcaggag attgagaacc agcctgacca acatggcaaa actctgtctc taccgaaaat	4140
acaaaaatta gctgggcatg gtggcagggt cctgtaatcc cagctacttg ggaggctgag	4200
gcaggagaat cgcttgaacc tgagaggtgg aagttacagt gagctgaggt catgccactt	4260
gcactccagc ctggggggaca gagtagaact ctgtctcaac aaaaaaaaaa aaaaaaagag	4320

aaaaaaaaag	gagggtagct	ccaccagcca	ggaaggtggc	agcgctgggtg	gctgttggat	4380
aggctaccta	cagtgtcttg	caaatactat	gcttgaagac	tatgctgtga	gcaagattcc	4440
tttgtgaagg	aacagcttgg	acattgtgta	tgtcagaggt	atacagcaga	atagcagtga	4500
ctaacgcttg	tgtgggagag	caagcatgtc	acctcatact	tggaataact	cactgccata	4560
caaagtctga	atcagctttc	gtctttgtgc	aacacatgta	tgtgggagct	tttcagctgc	4620
tgaaacctct	agtgcagaa	aaggaggttt	tgttgttcat	ttgtaattaa	tgtaaatcct	4680
atgagtgggtg	ggagagatag	tgaggtagga	gatcagcagg	acctgttttc	tggtcacaac	4740
ccagctaatac	agagcatgat	ctgggtcaaga	tgggatgcac	taaaaaaca	gccccaaacca	4800
gcagatggcc	aggaaagcaa	actctcatta	ccctcgccac	ttattagcat	aaagacactc	4860
ccaccgggtgc	catgcagtt	tacaaatgcc	atggaaacac	accatagcaa	cggtcagcaa	4920
gttacctcat	atggttcttg	aaactcccca	caccttttcc	agatagttct	gaataaccca	4980
ccccttaatt	tgcagtgaat	taaaagtcgg	tataagtaca	gtagccagc	agcccactgg	5040
ctgctactgt	gggctcactg	cctatgggtt	gtcctgctct	gcaaggaaca	gctaccttgc	5100
tgccactgct	gcttcaataa	acctgctttc	ttccaccaca	ggctcgctct	tcagttcttt	5160
cctgagcaaa	gttaagaacc	ctcccgggct	aagccccaat	tttgagctt	gcctgccttg	5220
catcagtaga	atgggctaac	tacttacggt	gcactcaggc	taaagaggct	gatgcttgca	5280
gggcagtatt	cacagagcac	acggtagttc	acgggatgcc	tctcaccctt	gactcagtgc	5340
ttaagaaagg	agggaaaatg	gtgaacatga	tcaaatacatg	gccattgcct	attcatcttt	5400
tcagtgttgt	atggaggaat	aggcaagtag	gagattgctt	ttcacattaa	tgtcaaagag	5460
aaagatagtt	acttggaact	taaaaaaatt	aattgtgata	aatatacat	aacataaaat	5520
ttaccatctt	aaccattttt	aagtatagcc	aatctcaaga	gctctttcta	tcttgtaaaa	5580
ctgaaaccct	ataccatta	aacaactccc	aattctcccc	ttccctaac	tcttggaac	5640
cacaattctt	tctgtctcta	tgaatttgac	tgctttggca	tgtcatagaa	atagactcat	5700
acagcatttg	tctttttgcg	actggcatat	tttgcttagc	ataatgtcct	caaggttcac	5760
ccatgtggta	gcatgtgtca	gaattcctct	ccttttgaag	gctgaataat	attccattgt	5820
gtgtatatac	cagtttttgt	ttatccattt	gccatcaat	gggcatttgg	gttgcttttt	5880
ttgcctctca	tgaatgatga	atatgggcgc	acaaatatct	cttcaagacc	atgctttcaa	5940
ttctcttggg	tatacaccca	gaagtggaat	tgctgaatca	tatggtaatt	tttttttttt	6000

tttgagacag aatcttgctc tgttgcccag gctggagtgc agtggcacia tcagagctca	6060
ctgcagcctt ggtcttctgg gctcaagcga tcctcttgct tcagccttcc gagcttctgg	6120
gactaaaggt gtgtgccatc atgcctggct aatgttttaa aaacggtgcc aggcattggtg	6180
gctcgtgctt gtaatcctag cactttggga agctgaggca ggtggatccc ctgaggctcag	6240
gagtttgaga ccagccttgc caacatgggtg aaatcccgcc tgtactaaaa atacaaaaat	6300
tagctgggtg tgggtggcatg tgctgtagt tccagctaca ggcaggagaa ttgctggaac	6360
ctgggtggca gaggctgcag tgagccgaga ttgcaccact gcactccagc ctgagtgaca	6420
gagtgagact ctgtctcaaa aaaaaaaaaa attttagaga tgggtgtctca ctgtgttgcc	6480
caggctggtc ttgaactcct gccctaaagt gatcctcctg cttccgcctc ccaaagtgct	6540
gggattacag gcattagcca ccatgcctgg cctagctaaa ttgtctttaa tgtcgcatgt	6600
ctgcaaaaaa cacatctata aagctagaaa agttgagcat ccaacttttt atgatttaac	6660
tctcatgacc tggcaatttt tctagcaagg agcctgggct ggtgggtttta ggagaactga	6720
gtgaaaaaaa gaaatacatt aactagattg gatgcaaagt gcctgctggg catgggtggt	6780
ttctgctggc ccctgttcat ctgtgcctgt tagcccaccc atgggtgagt ggggcaaagt	6840
ggccaaactg attcttaaga gaggcataca tgcagaatcc aagttagtca tgatttcggt	6900
tctagtctga gtgaatgtgt gtccagaata tttataaac tttatcagct cagaggggaa	6960
aacctgtctc catactacgt ggtttataca aagctgtcag gaattcagca tgatgaagaa	7020
atgcacaaaa caagtgtgaa cagataagta aaaggatcta ctgaaaatct tcagggtagt	7080
atattgtgtg acaggaccaa gaatttgaag tcaacatctg tatttgtgcc ctctggacaa	7140
aggtattatc cctgatgata taaaaattaa ttttgggctg ggtgtgggtgg ctcatgcctg	7200
taatcccagc actttgggag gctgaggagg gtgaatcgac tgacgtcagg agttggaggc	7260
cagcctgtat cgactaataa tacaaaaaaa ttagctggac atgggtggcgt gcacctgtaa	7320
tcccagctac tcaggaggct gaggtgggag aattgcttga actcgggagg ccgagggtgc	7380
agtgagtcgc accactgcac tctagcctgg gcgacagagt gagacwccgt ctcaaaataa	7440
acaaaattaa tttcgaggcc aggtgcagtg gctccagggt cggtggttca tacctgtaat	7500
tccagtgctt taggaggcca gaggattgct tgaacccaac agttcgagat caacctgggc	7560
aacatcagtg agactccatc tgtagaaaac aatcaaacag acaacaaca acaacaaaaa	7620
aaccagaggt gggaggatca cttgagccca ggagtccgag gctgcagtga gctatgggtca	7680

cgccactgcc	ctctagcttg	ggcaacagtg	ccagactctg	tccttaacaa	caacaacaac	7740
aaaaattaat	tctacttta	ctgtcagttt	catgatatcc	ttctattaag	aaaaaccttt	7800
tctatctgat	gaactattgg	ctaggttttc	tttctctctg	cttttgacta	atgcatttaa	7860
ttactttcat	ttgcaaactc	tatccttctc	atcaactttg	tattttagat	gtgtctattg	7920
acagcctggc	ttccctcagc	gatcattatg	atgatcaaag	tagatgaata	ggtaaaattc	7980
aatgcaaata	ttccagggca	tctaaatcca	taccccaa	gggaaaaggg	gagaattgga	8040
agccagcaat	ttgaacacat	tactatggat	gtatttttct	catgcggggg	aaaaagtgat	8100
ttggagagag	agaattatga	atgcatgtga	agaataaagc	caaatttcct	gggaggaggg	8160
gaagaccagg	agaaacaaaa	ccaatcctg	gctgcggcct	ctaaggcatg	gggacctgga	8220
gttatgctct	ccaggcagac	acagctcatt	ctggagaaa	gctgcaaaaa	tattctcctt	8280
cacattgatt	tgaacaacat	tattaaattc	ttgttttctt	atttatctaa	gtgtaacttt	8340
ttaaaactta	ctgagagaag	acgggcacgg	tggctcactg	ctgtaatcca	gtactttggg	8400
aagtcaaggc	aggtggatca	cctatggtca	ggagtctcag	accagcctgg	ccaatatggc	8460
aaaaccccg	ctctactaaa	aatacaaaaa	ttatcagggtg	tgggtggtgtg	tgccctgtaat	8520
cccagctact	cgggaggctc	agacaggaga	atcacttgaa	cctgggaggc	agaggttgca	8580
atgagctgag	attgcaccac	tgcactccag	cctgggcgac	agagcaggac	tccatctcaa	8640
aataaaaatt	aattgattaa	ttaattaaaa	atttactgag	agctggtggt	tcctttaagg	8700
gtggagccgc	catcaagtcc	ccagaggatg	ccctgaattt	gggggcatca	ccttcagctg	8760
ctgtggactc	tgagccttgg	cagctccagc	tccaggcctg	ggagaaagat	gatttcctgg	8820
cagcgtgcag	tgattgtgag	catttgacta	ccttactgca	ttttgccctt	atcaktgctc	8880
tccaaacatg	agtggaaaac	aaaaaatttt	gctgagacaa	gcgataatac	gagttagggg	8940
aagttggaga	attttatagt	tgctgatatc	agcaaatcgt	gagtttcaag	cactaaactta	9000
cagaaggaag	tccaaaatta	aaggggatat	agaaatgtgt	aaaagatgag	gtgtggtgaa	9060
gatggagaaa	atgaagagct	ctttaaat	ctgaattatg	agaatcacc	aacaaattat	9120
tttgtggttc	caaatacagg	gagaagttca	cagatccaca	gaactgatga	caggggtgcgg	9180
ccagccacaa	acctttcagc	acaagaggga	gaaggctgcc	gctccacttt	gcctgggcag	9240
tctttgtaag	gcagtagata	agtcagcctc	gaagttagca	atcacagccc	tcggctcggt	9300
ttcctgcaag	ggcatcggtta	atgcatcaca	attaatttct	tctgtccatt	aaatgtcagc	9360

tctcaagtaa attgatgtaa aatTTTTgtA tagaaaaacta tttcatatta tttgcacttg	9420
atgtttaatt acattttaaa tgTTTTgttt gtttcatttt gttttgtttt tgagacagag	9480
tcttgctctg ttgcccacgc tggaatgcag tgggtgtgatc ttgactcact gcaacctctg	9540
cctcctgggt ttaagcgatt ctctgcctc agcttcctga gtagctggga ttacaggcgt	9600
gcaccaccat gcctggctaa tctttgtatt tttagtagag atggggtttc accatgttgg	9660
ccaggctggt cccgaactcc tgacctcaag ctatacacyt gcctcagcct cccaaagtgc	9720
tggaattaca gacataagcc actgtgcccA gccaaatgtt ttaaataatt gtcacatata	9780
tatacaaaat aatttatgtt ataggtaggg atcttgttat attttaacct tcaaagtata	9840
ttcctaagct ttttatttat tttttatttt ttatttattg agacagtctt gctctgtcgc	9900
ccaggctgga gtgcagtggc gcaatctcga ctactgcaa actctacctc ctgggttcaa	9960
gcgattctcc tgctcagcc tctgagtag ctgggattac aggtgcgcac caccatgccc	10020
agctaatttt tgtatttttag tagagacggg gtttcaccat attggccaga gctggtctca	10080
aaactcctga cctcaggtga tccatccacc tcagcctctc aaagtgtctg gattataggt	10140
gtgagccact gcgcctggcc tattcctagc cttttatata tagacctttt tctttttcac	10200
attttaaagg aacttttatg tttaatcatg gaatatttca aacatacaga aaaatcacag	10260
aaaataaata acaaccactc atttatcttc tccccaaacc catgtaataa atattaaaat	10320
attgtgttaa atgctaaatt taacacatgc taaaggttcc tggctggatg tgggtggctca	10380
cgctgtaat ccagctactt tgggaggagg aggtgggagg attgcttgag tccaggagct	10440
cgagaccagc atgggcaaca tagtgcgatc tcgtctctac aaaaaacaaa aaaattagct	10500
gggcatggtg gtgtgcatca gtaatcccag tgactgggag gctgaggtgg gagaattgct	10560
tgagtctggg aatttgaggc tgcagtgagc cctgatcatg ccaactgcatt ccagcatggg	10620
cgacatagca aaacttgtca aaaaaaaaaa aggtttcctc tctgccccac catagacaac	10680
cactcttctg atttctatct tcgtagatga attttgccca ttctcttgta tatgaaagga	10740
accagacatt aggcattctg gtgtctggtt tctttcactt aagataaaat tgagttaacc	10800
tgtattgttg tacagaactg cagtttgttc tttgttattt attgtaaaga cagggctctg	10860
ctatgttgcc taggctggtc tcgaactgtt ggcctcaagc aatccacctg ccaagctctg	10920
ggaccacagg catgagccat ggcattctgat ckgtagtttg atcttatttc ttgctgagta	10980
gtagcccatg gcatgacttt attattttgg gtgtccattc tcctctggag gggctctgct	11040

ttttgaaacc	acacctggc	ctagctcccc	ttctccctgc	ctctctgcag	gctcacatcc	11100
acatgccaaag	acctctgcag	ccattctgct	tcctgtcctt	ccactcctgt	gggacctcag	11160
agagctacgg	ggctccctgg	gtaccaactg	gctcctgagg	cctgggggag	ggtggtcttc	11220
tgggagaagg	aagccaggtc	cctgcagggt	gtggaggggg	acagaatgag	ggtttttccc	11280
caggatggtg	ttggccctg	ccccacttc	tgttccataa	ttaaccacgc	ccctcctacc	11340
cactgtgccc	ctcttctgc	tgtgtggagg	ccctgaatca	ttattttaac	tacccctgg	11400
gagggtgagc	accttctgtg	ctctgtcccc	aaccttcac	ttccctcaa	cgcgtgctc	11460
agggatgacc	ttcggcactg	tgcttcttct	gagtggtaag	tggggccagg	gtgctgggga	11520
gaagcttga	ggagtctga	ggggactcca	tctgggagg	caggctggg	gctggtggtc	11580
ggctccaacc	actcttatga	ggagctgagg	caggggagtg	cttcatgtgc	gagtggccc	11640
gagtcagtag	agtgtgacct	gaatgaagag	gggctcagg	gctgtgctca	ggtggcgact	11700
aagctacctc	tccagctggc	tatgttgctc	caggcttccc	tgctcccact	catggagtc	11760
ctggtgtggg	tgacagaggt	ctccccagcc	tcccccgga	gtggaaggcc	acagaagcca	11820
ccagggagg	ggaaagggtg	gacatcacct	ccctgggcct	nnnnnttccc	ccaagtctg	11880
actgcacgta	gggaagaggc	cccctgctga	aaactgcac	agagtcacat	tcacgtgcca	11940
tcaaaaatca	ggcttggtg	ggtgcggtg	ctcatgctta	taatcccagc	actttgggag	12000
gccgagatgg	gcgtatcccc	tgaggtcagg	agtttgtgac	cagcctggcc	aacatggtga	12060
aaccccatct	ttaccaaaaa	tataaaaatt	agccgggcat	ggtggcgtgc	acttgtaatc	12120
ccagctactt	gggaagctga	ggcaagagaa	tcgcttgaac	ccaggagacg	gaagttgcag	12180
tgagctgaga	tcgtgccgtt	gcactccagc	ctcagcaaca	gagcgagact	ccatctcaaa	12240
aaaaaaaaaa	aaaaaaagaa	aaaaaagaaa	aagaggctgg	gaggtcctag	ggattggggc	12300
ttctttaact	cccagcctcc	ccgcccacca	aatattcctc	agtctgggt	tcttatcatg	12360
gattcaacct	ggatgtggag	gagcctacga	tcttccagga	ggatgcaggc	ggctttgggc	12420
agagcgtggt	gcagttcggt	ggatctcggt	aggccccact	cacctcctt	ccccaacctc	12480
cactacatca	agtcctgtgg	atgggtacac	gtgggttacc	cgagggaggt	gtcctggagg	12540
aaggccagca	ggggtgagaa	gtcttccctt	ggctccttgg	aggccctgac	atcagcacct	12600
attattctca	atcccaggaa	aggccacaaa	actctagaca	agaccctacc	ttacctcggg	12660
aggggaagcct	tgaacctgcc	tcccaggcag	ggccacttc	ttggggccag	tatggtcaca	12720

cagggccac actcattaac tttggagttt aatgttctgc ccttgacctc ttgaaattcc 12780
tgattatatt tttttttatt tttactccag ctctgttacc caggctggag tgcagtgggtg 12840
caatcacagc ttactgcagc ctcaaactct cgggcacaag tgatcctctc acctcagcct 12900
cctgaatagc tgggaccaca ggtgcatgcc atcatgcctg ttttttgttt tgttttgttt 12960
tactttttac agagatggag tcttgctatg ttgtccagac tggctgaact cctgggctca 13020
agcaatcctc ctgccttggc ctcccaaagt gctgggatta cagggtgtgag ccacctgtc 13080
ttgccaattc ttaaaaattt tatctgtgca tttgtgtttt gcaagtaaag aatgatggca 13140
gggctgggca ccatggctca cgctataat cccaacsctt tgggaggctg aggcgggcag 13200
atcatctgag gccaggagtt tgagaccagt ttggccaaca cagcaaaacc ccatctctac 13260
taaaaatgca aaaaaaatta gccgggcatg gtggcaggca tctgtaatcc cagctacttg 13320
ggaggctgag gcaggagaat cgcttgaacc tgggagggtg aggttgagct gagccgagat 13380
cgtgccactt tactccagcc taggtgacag agtgagactc cgtcaaaaaa aaaaagtcac 13440
gggagaaggg agatgtactg ggggtttgga gccttagctc agcagcagcc ccacctccca 13500
ccgcctcctg aagggtggtg aagggtatc agctgctggc tccccaccc atgtgggagc 13560
aatgaccgct gctaccttc gccctggca tgagctgggt aaagtcagtt aggggcgctc 13620
actctgggag taccctgagg gagtgggaca ctacatagca aataaaaaac gtcaggacag 13680
gttgaggaaa gagagcagaa gaaaggtgag agcccccaa cccaagaga cccacagtt 13740
ttatttcaa ttgggacca caaattatga acctgcccc acttccagga gtcacattc 13800
tcctgtccca gagagttcaa gtcacaatgt gacacaggtg tcaccaaggt ctggggggcg 13860
caggcaggga gagagcagac ccaggagggt tccatggagg aagtgggtgct ggcagtgagc 13920
cccagtggac aggaaggctc agttgggtcac gaggagctat aagaggtcac cgagctccaa 13980
ccgcgcaccc ctctccctc ctcatgtgac tggcagctctg gggggatgga agcaagcacc 14040
aggcaccagg cttttgtttt tctttatttg gaaatgtggt caactgaggt gcacaaatct 14100
gaaagacca atctgataaa ggatacacat gtgcgtgcct gggtgagccc cacctaggctc 14160
agctgctcca gtgtcaaata ccacaggcac agggctgccc tggacctt ctcatcacc 14220
aacatcccca gagaaccctt ggtcagactt ctgtcaccat cagttttttg ggccacattt 14280
taaaaaaaga atacattggc tgagtgcagt ggcttatgcc tataatccta gaactttggg 14340
aggctgaggg ggggtggatca cctaagggtc agagttcaag accagcctga ccaatatggt 14400

gaaaccctgt ctctactaaa aaatacaaaa attagcctgg cgtgatggca ggtgcctgta 14460
 atcccagcta gctgggtgac tgaaatagga gatttgcttg aacctgggag gtggagggtg 14520
 cagtgagctg agatcacgcc attgcactcc aacctgggtg acagagtga actctgtctc 14580
 aaaaaacata tgggttgatg gggttacta aagttttgct catcgtttgt atcagcaggt 14640
 tccaaactgc tacctctcta gccaatgctc agattttctt cacaaagcct taggcattccc 14700
 ctgaatcatg atgcacaggg attgtagctt tctgtaaagg agcggcacct agaaggaacc 14760
 ctcacatggc catttaatga agccttgctt ggcgcattaa aatacaccag tatctgtctg 14820
 cttttctcac agacaggaga ttgtgggtag tgagaaaaca tttccaaaat taaaaaactt 14880
 tcccactcag ggagttttgc aaataaacc ttgactctac ataactatag atatagttat 14940
 ggatcctagt aactgcttt acattggcca attgaaattg cttatacaat atttaaattg 15000
 gtccaatgaa ttacagaatc aactatttgt tttgaaagca catgtcttca ggaaattggt 15060
 ccaattaact tgagatgatc ttatttcttg ggtggttcaa aataatggca actcagaaac 15120
 gcaatgtgct taccatgat tgggaaatgc cattttggtc tttaaataagg tctttttttt 15180
 tttttttttt tttttttttt ggtgaatggt aaaaagaaat ttctaaacat aaatacacac 15240
 atacgtactt atgcacactc aaaaccaa ataaacccagc atggccctg ggcattctgtg 15300
 agttacactt gggccctgat ttctgaatat tctgccagt ggcaaatgcc aggaatttcc 15360
 cccacagagt ctgcttccc catggaggga cacttctca ccccaagtg cccgctgctc 15420
 ccacccctcc tgtggctgca gtgacatggc catggttggtg tctccagact cgtggtggga 15480
 gcacccctgg aggtggtggc ggccaaccag acgggacggc tgtatgactg cgcagctgcc 15540
 accggcatgt gccagcccat cccgctgcac agtgagtgc cactgggaa ttgggcccct 15600
 caaccctcct ggaccaact gtgccccgc ttagcttcca gtccagacct tccccgcaa 15660
 tgagtgtgtg ctgtgagtga gacccgcgt gtctgccct gcagtcgcc ctgaggccgt 15720
 gaacatgtcc ttgggcctga ccctggcagc ctccaccaac ggctcccggc tctggtgag 15780
 tgagtgtctt gggccacggg ggggtgggt ggggcgggg gtgttggttg ggaggaggct 15840
 ggggctggga gtgaaggagg aggggctgct agggactcct ggctcacagg cttctgcctc 15900
 caggcctgtg gcccgaccct gcacagagtc tgtggggaga actcactc aaagggttcc 15960
 tgctcctgc tgggctcgc ctgggagatc atccagacag tccccgacgc cagccaggt 16020
 aggtccctgg caggccatgg ttccctgtgg agcacatgct ggcactgagg gtgagcaggc 16080

gtgaggcctg tgtctgggcc cctgtgccct ccctggaggg ccgagtgtgg ctaggagaga 16140
 agccaggaga agaggggtggc tcaggcagga gccctgctgc tccagggtag aagttctttg 16200
 caggggtttt ctttatattt ttttctttt aagacagggc ccctgccagg cacagtggct 16260
 caggcctgta attccagcat tttaggaggc tgaggtgggc gggatcacct gaggtcagga 16320
 gttcgagacc agcctggcca atgtggtgaa acccctctac taaaaataca aaacaaaaca 16380
 aaacaaaata gcaggatgtg gtggtgtgcg cctgtaatcc cagccactcg ggtaggcaga 16440
 gacagaagaa tcgcttgaac ccaggaggcg gaggttcag tgagctgaga ttgtgccatt 16500
 gcaactccagc ctgggtgaca agagcaaac tccatctcaa aaaaaaaaaa aaaacaaaaa 16560
 acagagtttc tgtcaggctg catgcaccac cacaccctgc taattttttt gagacagagt 16620
 cttgctctgt cggccaggct ggagtgcagt ggtgcaatca tagctcactg cagcctcgaa 16680
 ctctgggct caagtgatcc tcctccctta gcctactgag tagttgggac tgcaggtaca 16740
 tgcatacac ctggctaatt aaaaaaatg tttttgtaga aatgggggtc ttgctatgtt 16800
 acccagcctg gtcttgaact cctgggctca agtaatcctc tgccacagcc tctcaaagtg 16860
 ttgggatgac aggcattgagt ccttgtgcct ggcctgaggg atgaaagttc tgatggaggc 16920
 agagaggagc cccactgtgc gggctgtaga gggcacagca tcttcagtt gccaacaggt 16980
 gcatggccac ttcttgagtt tcagaggaag gaccttagtg tggtaaagaa cgtggtgagg 17040
 aagataaatc catgaggag gtgtttcttc tggatgggtc actgctgagc ttccaggatt 17100
 ccccaaacta actttcctc cgaagaggag caaatgacag ggctgcggaa aatgcgatgt 17160
 gcaattttgt cagtgcccat gtcttcaca gagaacaggg cctggggaca ccaccatgac 17220
 atctctctga gggttggtc gcatcatggt ggttcccaag tttgttttcc atgggcacca 17280
 ggcttcattc ccttgaagct tcattccctc aaagccattc agtttctca ttggtaaaat 17340
 agagctcaat aatcagggg ttatgaaggt gaaagggatt gaggtgcata aagcacttgg 17400
 aaccctgcct ggcacatagt atgtgatagc ccctctgacc catcttccag ctggggactg 17460
 catgctggga ctgggaggaa gatacaggca aactgtctca tctgccgtgt gagagggaat 17520
 gccaggggcc gctcaggggt ctgaccgagg gtggggcttc agaccagaga ggccatgatg 17580
 acaggcatgc tgggccttta gacaaagggt gagcagcagc agaaacatta ccagagcaaa 17640
 tgggtgagggt ggagtctatg gaggggacca agggaagggg gaagggacat ccagggttct 17700
 tggggggacc gtgcccagcc tgagatgtct gtgaagctag gttagggagg tggcacttaa 17760

aaacaagggg taaatgtctt ctcacagcca tccgtggaac tcatgaggtg ggatgcctga 17820
tgcaaatggg actggagcac aaaactgggtg caggcaaggg ggggtgtgggt ccaagtagaa 17880
gggaccaggg tccactgagg atcacctgtg tgccaagcag tgctgaatac ctggtatgaa 17940
tcaccttatt gcacctcac aacatcctgg gtgggtgggca ggcccattct cattttacag 18000
atatgaaaac caaggttcag atagatgagt tccatcgata gcaagaggca gagcccagag 18060
cttgagccat ccttgectga ttgggtgggg cctttttcaa aaggataagt ccaggcttct 18120
gctagtggga gaccagggga tacaataaaa agaccaagaa acagaagaga cattgtgaga 18180
ggatttgcca cagacctggc ctgagagagg atgagagggg ggtttcttga cgcagctgaa 18240
aaaacaggca cactgcaag atgttggtg cccagatgtg ggcaaaaaac ggggagctcc 18300
tgggggggac tgcagcctgc cccatggatg tcaagatttg ctggtgattg aagaagcagg 18360
aaggaaagtga ccttctgttt ctccccagca cccttgaagc accagtgggt gagcaagtgg 18420
ggtaggggag aggaaagagg aaaaggcatt tttttttct gcagtgggtg gcagggggca 18480
gaaaccacag ccctgtggtg tgggcctcac accttagtgc tctggtggcc tgatctccca 18540
gtgccctgcg ggcagcacag gatgtggctg ctggtggagg taccaactgg gccctgaaca 18600
caggccacac acccccatg agcctgggga cagcatgaaa agtcttattt gttcatgtgc 18660
atatgatgtg ccctcacgat tgcagagtga actccacaaa ctctgaggtc acttggaat 18720
gttctttttt tttgagacgg agtctcactc tgtcgcccag gctggagtgc agtggcacia 18780
tcttggtca ctgcagcctc cacctcccag gttcaagtga ttctcctgcc tcagcccccc 18840
aaatagctag gattacaggc accgccacca tgccgggcta atttttttgt attttttagta 18900
gagatggggg ttcaccatgt tggccaggct ggttttgaac tcctgacctc aagtaatccg 18960
cccacctcag cgtcccaaag tgctaggatt acaggcgtga gccaccactc ccaactggga 19020
atattcttgg gcaccgcacc catgggagca tgaagggtgg atgcaatgca atcataacag 19080
aggcccaagg tcagcactgg ggtgcttgcc tgtcatccca gtgctttggg aggccgaggt 19140
gagtggatcg ttagagccca ggaggttgag accagcctgg gcaacatggc gaaactccgt 19200
ctctacaaaa agatacaaaa attagccagg caagggtgtg cacacctgta gtcccagcta 19260
ctcaggagac tgagggtggga gaattgcctg agcctgggga ggtcgaggct gcactgacct 19320
gtgatcacac caccacactc cagcctgggt gacagtgaga ctctgcctca aaaaaacaaa 19380
aatgaaaaa accagaggcc tcagccaatg cctggggggc tcagagtga gctggccctt 19440

cagacgctga accagtcata ggtaaaggtt tctccaggg gcaggaggtg tcccagtggg 19500
caacagttcc cctctgcta gcgtgattcc tgggaaggga ctcagctcag agccaactcc 19560
acgtagctgg aaataaggac ctctgaccga ctgggggtag ggtgggggtct ggggtggatc 19620
cctgccccac cccacagca tccctacagg catatcctac aggcctcgaa ggtgcctggc 19680
acgtggtgag aatggtgcca gcggctgacc ctggcagagg gccaggactt gtctccagca 19740
cccatgtgcg tgttgcttta tcttgcagt gatccacgt ggtagccact gatattacct 19800
tcattttaca gatagggaca ctgaagtcca gagaagttaa gtaatgtgcc tgaattcacc 19860
aattagcacg tggctgagct ggggttttagc ccaggcacac tggctccaga acacgcgccc 19920
tgaaccactt tgctaaacat tcgcccttga tgcttggtgc acccctagca tctgtgttta 19980
atgaatattt gttgattaaa tggatgagga gccacactgg gtctgtgtt gtcacccctc 20040
tctttccagg ccatgtggga ggaaggagc agggggctgg ggtggcagac tggggcctcc 20100
tccaaggagg ggtcggaac taggtgggga tgccaagaac agccccggg ctctgttgag 20160
caggagctgc aggagggggg tgggcccccg cagtgcactc ccgattcctc cccattcccc 20220
cacagagtgt ccacatcaag agatggacat cgtcttctg attgacggct ctggaagcat 20280
tgacaaaaat gactttaacc agatgaaggg ctttgtccaa gctgtcatgg gccagtttga 20340
gggcactgac accctggtga agactgggca cctggggctg gggtttgggg gacgggggag 20400
gctggcctcg gggaggcatc ccgggagggg tgggggcagg ccagtgagcc gtgtgtgatg 20460
gggctggggg ggagaatgaa gctatggtcc cagcacaggc ccaacttgag ccctgaccta 20520
ggaggccctc ttggcattta ataatgtatc caaaagctac aggaaatata atgtttctgc 20580
tgtttaaaaa cattgaaagt gtttaaaaaa taattttgct atggaatttg actgacatat 20640
tttctatgta actaatgatt tctttttatt attttatttt ccataacta gtgcctatgt 20700
atgtgcaaaa aaacccct gttttgtttt ttaaacaggg tcttgttctg tcatccaggc 20760
tgcagtgtgg gggtgcaatc atagctcact gcagacttga tctcccaggc tcaagtgatc 20820
ctctttctc agcctcctga gtagatggga ctacagggtc atgccaccat gcctggctaa 20880
tttttaaaaa tttttattgt agagatgggg tcttgttata ttgccaacc tgggtctcaa 20940
ctcctggctc aaacaaccct cccaccttgg cctctcaaag tgctgggatt acaggcatga 21000
gtcactacgc ccagccacaa attcttgaga agggaggaaa tacacaaatt gatttaatgt 21060
gtgataaaat ttttaaaaag ctaagggtag caaatattgt gggtggcaaa gttattttta 21120

ataaactgtg aaggaaatat catttggttt agattttcca gtttatattt tgtatttttg 21180
 ggccaatgaa ttttcttctc tgggtttcag tatattattt gtagggcttc aaaacacatg 21240
 ggaaatggtt tgtaaatacca aaataattcc aaaataaagt ttattaaaac tgaaaacaat 21300
 atggcttggg gtggtggctc acacctgtaa tcccagcact ttgggaggct ngagggtgga 21360
 gtattgcttg aggccaagag ttcgagacca gcctgggcaa catagtgaga ccttgtctct 21420
 accaaaaaca aaacaaaaca aaaaacaaag ccaggcatgt gacgtgtgcc tgtagttcca 21480
 gctacttggg ggctgaggca ggaggatcac ttgaggccag gagtttgaga gaccctgtct 21540
 ctacaaaaaa ttaaaataaa aacaatagta acaggcactg agccctgggc cctccccact 21600
 ggcctttgca gtttgactg atgcagtact caaacctcct gaagatccac ttcaccttca 21660
 cccaattccg gaccagcccg agccagcaga gcctggtgga tcccatcgtc caactgaaag 21720
 gcctgacgtt cacggccacg ggcacccctga cagtgggtga aagcaacccc gaccca 21777

<210> 4
 <211> 25
 <212> DNA
 <213> Homo sapiens

<400> 4
 cctgaatcat tattttaact acccc 25

<210> 5
 <211> 23
 <212> DNA
 <213> Homo sapiens

<400> 5
 ccataattaa ccacgcccct cct 23

<210> 6
 <211> 23
 <212> DNA
 <213> Homo sapiens

<400> 6
 acccactgtg cccctcttcc tgc 23

<210> 7
 <211> 24
 <212> DNA
 <213> Unknown

<220>
<221> misc_feature
<222> ()..()
<223> primer

<400> 7
gcggtgatcc cgggtgatct gaat

24

<210> 8
<211> 10
<212> DNA
<213> Unknown

<220>
<221> misc_feature
<222> ()..()
<223> primer

<400> 8
attcagatca

10

<210> 9
<211> 21
<212> DNA
<213> Unknown

<220>
<221> misc_feature
<222> ()..()
<223> primer

<400> 9
ctgggagaag gaagccaggt c

21

<210> 10
<211> 27
<212> DNA
<213> Unknown

<220>
<221> misc_feature
<222> ()..()
<223> primer

<400> 10
caggttggtgg agggggacag aatgagg

27

<210> 11
<211> 33
<212> DNA
<213> Unknown

<220>

<221> misc_feature

<222> ()..()

<223> primer

<400> 11

ggttgaggag ggggacagaa tgagggtttt tcc

33

54
21